

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D505-1057 REV. B,  
INSTALLATION INSTRUCTIONS IIS05-1 REV. E,  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D505-1057 REV. 1,  
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA505-1 REV. 3  
OR LATER APPROVED REVISIONS  
REF. TCCA STC: SH18-9, SH19-31  
REF. FAA STC: SR04133NY, SR04387NY  
REF. EASA STC: 10067422, 10070898  
REF. DGAC MEXICO STC: IA-623/2019, IA-645/2019

## 1.0 PURPOSE

The DART D505-1057-013/-014/-113/-114 Skidtube Installations (ref. TCCA STC SH19-31) do not allow Loop Clamps and L-Brackets of the DART 651.600X-series Emergency Float System (ref. TCCA STC SH18-9) to install per the float system's installation instructions. The purpose of this DART Service Instruction (DSI) is to provide instructions for alternative attachment locations for the float system's Loop Clamps and L-Brackets. The DSI 9865-011 kit is available that provides additional hardware for this change.

This DSI also corrects the torque value for T-Bolt Loop Clamps of the DART 651.600X-series Emergency Float System.

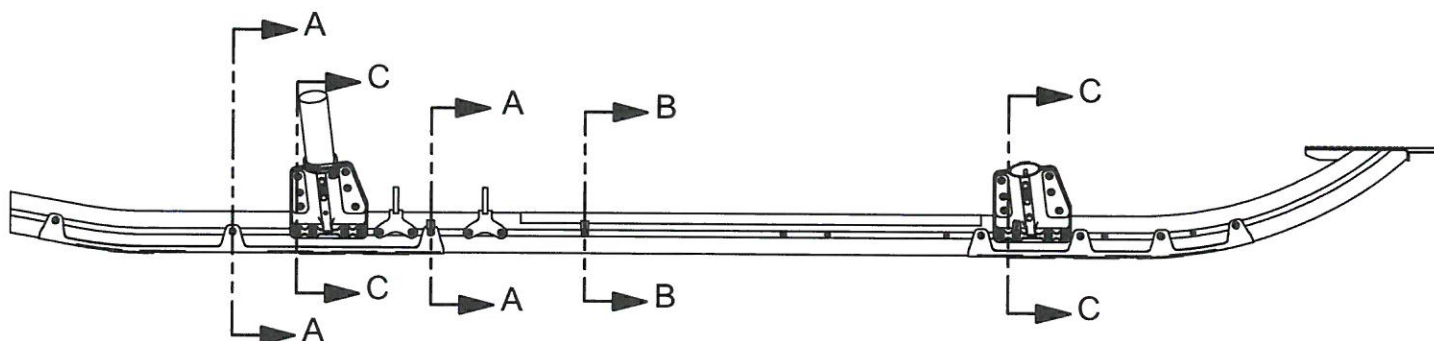
## 2.0 CHANGE: RELOCATION OF LOOP CLAMP AND L-BRACKETS

When installing the 651.600X-series Emergency Float System on a DART D505-1057-013/-014/-113/-114 Skidtube Installation, Figure 1 of this DSI may be used for alternate Loop Clamp and L-Bracket locations as follows:

- 601.4106 Loop Clamps (F/N 25) may be located as shown in Figure 1 and Sections A-A & B-B
- 601.0733 L-Brackets (F/N 51) may be located on the saddles at one of the saddle-to-skidtube bolt locations as shown in Figure 1 and Section C-C.



The section views give suggested bolt lengths for each location. Longer or shorter bolts and additional washers may be used to ensure 1.5-2 threads in safety. Torque the AN3 bolts 20-25in.lbs (2.3- 2.8 N.m). If required, touch-up paint finish with chemical film material (Alodine 1200 or 1201) per MIL-C-5541, one coat of MIL-P-85582 or MIL-P-23377 primer, and 2-3 coats of MIL-C-83285 polyurethane paint to match original finish.



**FIGURE 1: LOOP CLAMP AND L-BRACKET ATTACHMENT LOCATIONS**

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

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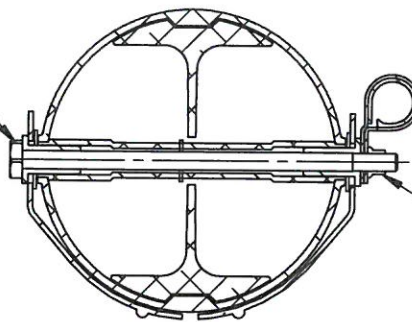
BY:   
C. PROVENCAL (DE # 03)

DATE: 21.09.09  
CERT. NO.: SH19-31 / SH18-9  
ISSUE NO.: 1 / 1

**APPROVED**

B	601.0733 USED FWD/AFT (SECTION 2), FIX P/N TYPOS (SHT 2), ADD 601.0625 & HARDWARE TO KIT (SECTION 3), UPDATE PARTS LIST	SAD	21.09.09
A	NEW ISSUE	SAD	21.09.01
REV.	DESCRIPTION	BY	DATE
DESIGN	SAD	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	HE	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9865	SHEET 1 OF 4
APPROVED	CP	TITLE	SCALE
DE APPR.	CP 	505 FLOAT ATTACHMENT	NTS
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AN3C37A BOLT  
D2652 BUSHING  
WEARPLATE, REF  
D3672-7 WASHER

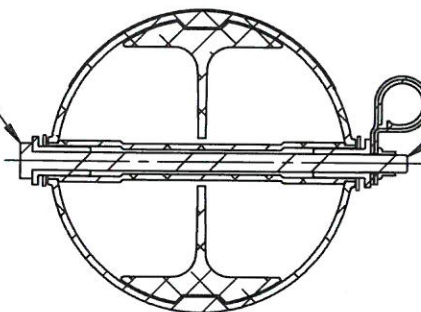


**SECTION A-A**

D3672-7 WASHER  
WEARPLATE, REF  
D2652 BUSHING  
601.4106 LOOP CLAMP  
NAS1149C0332R WASHER  
MS21043-3 NUT



AN3C36A BOLT  
D2652 BUSHING  
D3672-7 WASHER

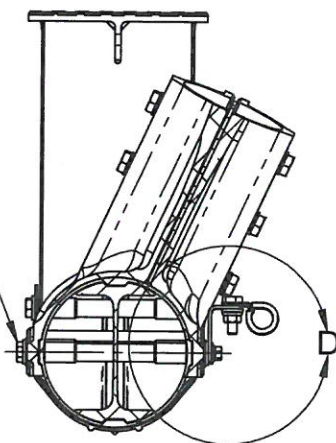


**SECTION B-B**

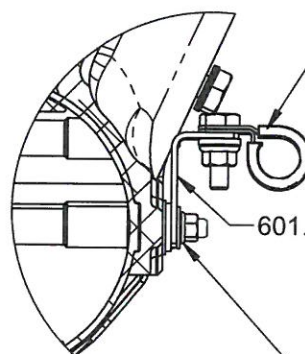
D3672-7 WASHER  
D2652 BUSHING  
601.4106 LOOP CLAMP  
NAS1149C0332R WASHER  
MS21043-3 NUT



AN3C42A BOLT  
D2652 BUSHING  
D3672-7 WASHER



**SECTION C-C**



**DETAIL D**

601.4106 LOOP CLAMP, REF

601.0733 L-BRACKET

D3672-7 WASHER  
D2652 BUSHING  
L-BRACKET, REF  
NAS1149C0332R WASHER  
MS21043-3 NUT



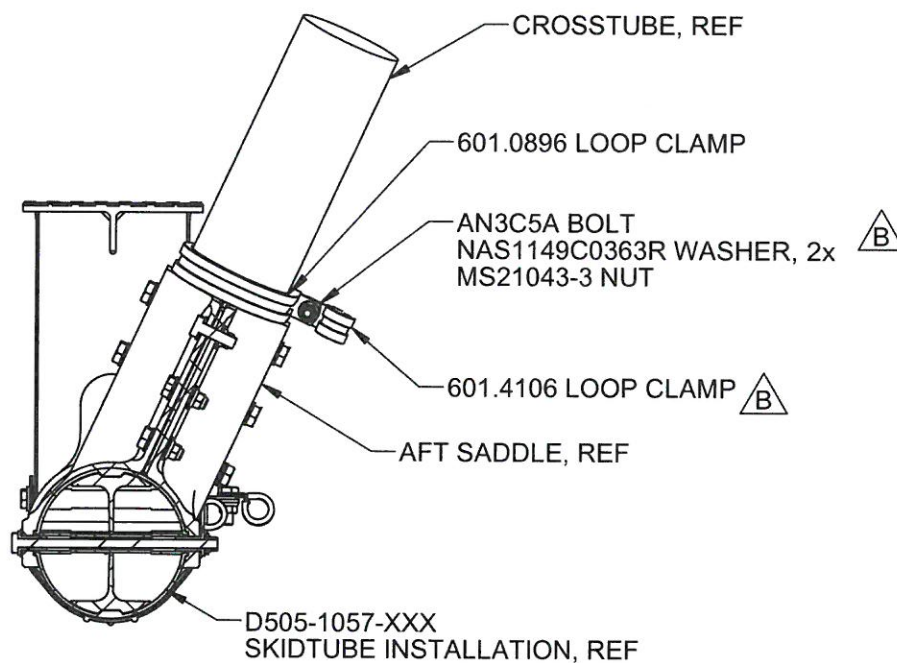
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### 3.0 CHANGE: L-BRACKET REPLACEMENT ON AFT SADDLE

The 601-0733 L-Bracket (F/N 51) shown in Figure 31 of II505-1 will not install on the aft saddle of DART D505-1057-XXX Skidtube Installations. Alternately, install an additional 601.0896 Loop Clamp (F/N 24) at the location shown in Figure 2 of this DSI. Install the 601.4106 Loop Clamp (F/N 25) and associated hardware similar to Section P-P of Figure 30 of II505-1.



**FIGURE 2**

### 4.0 TORQUE VALUE CORECTION, T-BOLT LOOP CLAMP

The torque value for the 651.2601 T-Bolt Loop Clamp, Section 4.3 of II505-1, is amended as follows:

**WAS:**

3. Torque T-Bolt Loop Clamp to 80-90 in-lbf.

**IS:**

3. Torque T-Bolt Loop Clamp to 45-50 in-lbf.

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## 5.0 PARTS LIST, FLOAT ATTACHMENT KIT

The DSI 9865-011 Float Attachment Kit provides additional hardware to allow installation of the DART 651.600X-series Emergency Float System on DART D505-1057-013/-014/-113/-114 Skidtube Installations. Qty(1) kit contains sufficient hardware to install qty(1) float system onto qty(2) skidtubes.

B

QTY -011	Part Number	Description
X	DSI 9865-011	FLOAT ATTACHMENT KIT, 505
2	601.4106	LOOP CLAMP (MS21919WDG7)
2	601.0896	LOOP CLAMP (MS21919WDG35)
2	AN3C5A	BOLT (OR 601.0720)
2	AN3C36A	BOLT
6	AN3C37A	BOLT
4	AN3C42A	BOLT
4	D2652	BUSHING
20	D3672-7	WASHER
12	MS21043-3	NUT (OR 601.0789)
10	NAS1149C0332R	WASHER (OR 601.2421)
4	NAS1149C0363R	WASHER (OR 601.0774)

## 6.0 WEIGHT AND BALANCE

This DSI has negligible effect on weight and balance.

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SHEET 4 OF 4  
SCALE  
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